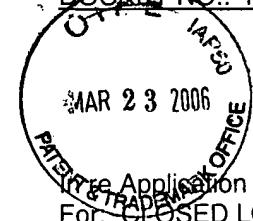


JW 3766

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

The Application of: Hill et al.

For: CLOSED LOOP NEUROMODULATION FOR PREVENTION AND TREATMENT OF CARDIAC CONDITIONS

Serial No.: 10/035,319

Filed: 10/26/2001

CERTIFICATE OF MAILING UNDER 37 CFR 1.8: I hereby certify that this **MISSING PARTS** and the paper(s), as described herein, are being deposited in the U.S. Postal Service, as first class mail, addressed to the Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 21st day of March, 2006.

Signature

Molly Chlebeck

Printed Name

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

We are transmitting herewith the attached:

Information Disclosure Statement
 Supplemental Information Disclosure Statement
 PTO FORM 1449
 Copies cited references
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FEE CALCULATION

\$ 00.00 Pursuant to 37 CFR §1.97(b) (before mailing of first Office Action)
 \$ 00.00 Pursuant to 37 CFR §1.97(c) with Certification (cited in foreign application not more than 3 months earlier)
 \$ 00.00 Pursuant to 37 CFR §1.97(e) with Certification
 \$180.00 Pursuant to 37 CFR §1.97(c) without Certification
 \$180.00 Pursuant to 37 CFR §1.97(d) with Certification

Applicant hereby petitions for a months' extension of time. If an additional extension of time is required, please consider this petition therefor.

Applicant believes that no extension of time is required. However, if an extension of time is required, please consider this a petition therefor to provide for the possibility that applicant has inadvertently overlooked the need for an extension of time.

Please charge any additional fees or credits to Deposit Account No. 13-2546 which may have been overlooked with regard to this filing. A duplicate of this transmittal is enclosed.

Date

Paul H. McDowell
Reg. No. 34,873
Telephone: (763) 514-3351
Customer No. 27581



Docket: P10124.00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Hill et al.) Art Unit: 3766

Serial No.: 10/035,319) Examiner: F. Oropeza

Filed: October 26, 2001)

For: CLOSED LOOP NEUROMODULATION FOR PREVENTION AND TREATMENT
OF CARDIAC CONDITIONS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington D.C. 20231

Dear Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application.

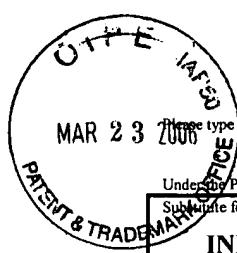
Consideration of each of the documents listed on the attached Form 1449 is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicant further requests that a copy of the Form 1449, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Respectfully submitted,

Date: 20 March '06

By:


Paul H. McDowell
Reg. No. 34,873
Telephone: (763) 514-3351
Customer No. 27581



MAR 23 2006

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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1 of 5

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MAILED INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Substitute for form 1449A/PTO				Application Number	10/035,319
				Filing Date	October 26, 2001
				First Named Inventor	Thomas J. Mullen
				Group Art Unit	3762
				Examiner Name	F. Oropeza
Sheet	1	of	5	Attorney Docket Number	P10124.00

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite ¹ No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	3,421,511		Schwartz, et al.	01-14-1969	
	AB	3,522,811		Schwartz, et al.	02-12-1969	
	AC	3,645,267		Hagfors	02-29-1972	
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	BK	6,178,349		Kieval	01-23-2001	
	BL	US2002/0004549	A1	Custodero, et al.	01-10-2002	
	BM	US2002/0107553	A1	Hill, et al.	08-08-2002	
	BN	US2002/0143369	A1	Hill, et al.	10-31-2002	
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	BP	US2003/0100924	A1	Foreman, et al.	05-29-2003	
	BQ	US2003/0212445	A1	Weinberg	11-13-2003	

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		Application Number	10/035,319
		Filing Date	October 26, 2001
		First Named Inventor	Thomas J. Mullen
		Group Art Unit	3762
		Examiner Name	F. Oropenza
Sheet	2	of	5
		Attorney Docket Number	P10124.00

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite ¹ No.	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ³	Number ⁴				
BR		WO	9216257	A1	Obel, et al.	10-01-1992	
BS		EP	0530354	A1	Obel, et al.	03-10-1993	
BT		EP	0547734	A2	Collins	06-23-1993	
BU		EP	0721786	A2	Obel, et al.	07-17-1996	
BV		WO	9955413	A1	King	11-04-1999	
BW		WO	0234327	A2	Mullen, et al.	05-02-2002	
BX		WO	0234330	A2	Hill, et al.	05-02-2002	
BY		WO	0245791	A2	Hill, et al.	06-13-2002	
BZ		WO	2002085448	A2	Foreman, et al.	10-31-2002	
CA		WO	2003099377	A1	Ayal, et al.	12-04-2003	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite ¹ No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CB		LI, et al., "Reversal of Reflex-Induced Myocardial Ischemia by Median Nerve Stimulation (Λ): A Feline Model of Electroacupuncture," dated March 31, 1998, pp. 1186-94	
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CJ		BLAIR, et al., "Responses of Thoracic Spinothalamic and Spinoreticular Cells to Coronary Artery Occlusion," from <u>Journal of Neurophysiology</u> , Vol. 51, No. 4, April 1984, pp. 636-648	
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CO		BUTLER, et al., "Cardiac Responses To Electrical Stimulation Of Discrete Loci In Canine Atrial And Ventricular Ganglionated Plexi," from <u>The American Physiological Society</u> , 1990, pp. H1365-H1373	

Examiner Signature	Date Considered
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Substitute for form 1449A/PTO		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/035,319
		Filing Date	October 26, 2001
		First Named Inventor	Thomas J. Mullen
		Group Art Unit	3762
		Examiner Name	F. Oropenza
Sheet	3	of	5
		Attorney Docket Number	

	CP	HULL, et al., "Heart Rate Variability Before And After Myocardial Infarction In Conscious Dogs At High And Low Risk Of Sudden Death," from <u>The American College of Cardiology</u> , 1990, pp. 978-985
	CQ	ARMOUR, M.D., "Intrinsic Cardiac Neurons," from <u>Journal of Cardiovascular Electrophysiology</u> , Vol. 2, No. 4, August 1991, pp. 331-341
	CR	CHANDLER, et al., "Effects Of Vagal Afferent Stimulation On Cervical Spinothalamic Tract Neurons In Monkeys," from <u>Pain</u> , 1991, pp. 81-87
	CS	LINDEROTH, M.D., et al., "Effects Of Sympathectomy On Skin And Muscle Microcirculation During Dorsal Column Stimulation: Animal Studies," from <u>Neurosurgery</u> , Vol. 29, No. 6, 1991, pp. 874-879
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	CU	CARDINAL, et al., "Distinct Activation Patterns Of Idioventricular Rhythms And Sympathetically-Induced Ventricular Tachycardias In Dogs With Atrioventricular Block," from <u>PACE</u> , September 1992, pp. 1300-1306
	CV	FU, et al., "Vagal Afferent Fibers Excite Upper Cervical Neurons And Inhibit Activity Of Lumbar Spinal Cord Neurons In The Rat," from <u>Pain</u> , 1992, pp. 91-100
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	CY	CHANDLER, et al., "A Mechanism Of Cardiac Pain Suppression By Spinal Cord Stimulation: Implications For Patients With Angina Pectoris," from <u>European Heart Journal</u> , 1993, pp. 96-105
	CZ	HUANG, et al., "Effects Of Transient Coronary Artery Occlusion On Canine Intrinsic Cardiac Neuronal Activity," from <u>Integrative Physiological and Behavioral Science</u> , Vol. 28, No. 1, January–March 1993, pp. 5-21
	DA	ADAMSON, et al., "Unexpected Interaction Between β-Adrenergic Blockage And Heart Rate Variability Before And After Myocardial Infarction – A Longitudinal Study In Dogs At High And Low Risk For Sudden Death," from <u>American Heart Association, Inc.</u> , 1994, pp. 976-382
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	DD	FOREMAN, "Spinal Cord Neuronal Regulation Of The Cardiovascular System," from <u>Neurocardiology</u> , 1994, pp. 245-276
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	DG	YUAN, et al., "Gross And Microscopic Anatomy Of The Canine Intrinsic Cardiac Nervous System," from <u>The Anatomical Record</u> , 1994, pp. 75-87
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	DI	CARDINAL, et al., "Reduced Capacity Of Cardiac Efferent Sympathetic Neurons To Release Noradrenaline And Modify Cardiac Function In Tachycardia-Induced Canine Heart Failure," from <u>Can. J. Physiol. Pharmacol.</u> , 1996, pp. 1070-1078
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	DL	ARMOUR, et al., "Gross And Microscopic Anatomy Of The Human Intrinsic Cardiac Nervous System," from <u>The Anatomical Record</u> , 1997, pp. 289-298

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number	10/035,319
Sheet	4	of	5	Attorney Docket Number

	DM	CROOM, et al., "Cutaneous Vasodilation During Dorsal Column Stimulation Is Mediated By Dorsal Roots And CGRP," from <u>The American Physiological Society</u> , 1997, pp. H950-H957
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	DQ	FOREMAN, "Mechanisms Of Cardiac Pain," from <u>Annu. Rev. Physiol.</u> , 1999, pp. 143-167
	DR	LINDEROTH, et al., "Physiology Of Spinal Cord Stimulation: Review And Update," from <u>Neuromodulation</u> , Vol. 2, No. 3, 1999, pp. 150-164
	DS	QIN, et al., "Chemical Activation Of Cervical Cell Bodies: Effects On Responses To Colorectal Distension In Lumbosacral Spinal Cord Of Rats," from <u>The American Physiological Society</u> , 1999, pp. 3423-3433
	DT	CHANDLER, et al., "Intrapericardiac Injections Of Algogenic Chemicals Excite Primate C ₁ - C ₂ Spinothalamic Tract Neurons," from <u>The American Physiological Society</u> , 2000, pp. R560-R568
	DU	FOREMAN, et al., "Modulation Of Intrinsic Cardiac Neurons By Spinal Cord Stimulation: Implications For Its Therapeutic Use In Angina Pectoris," from <u>Cardiovascular Research</u> , 2000, pp. 367-375
	DV	HOPKINS, et al., "Pathology Of Intrinsic Cardiac Neurons From Ischemic Human Hearts," from <u>The Anatomical Record</u> , 2000, pp. 424-436
	DW	KEMBER, et al., "Aperiodic Stochastic Resonance In A Hysteretic Population Of Cardiac Neurons," from <u>The American Physical Society</u> , 2000, pp. 1816-1824
	DX	MEYERSON, et al., "Spinal Cord Stimulation," from <u>Bonica's Management of Pain</u> , 2001, pp. 1857-1876
	DY	ARDELL, "Neurohumoral Control Of Cardiac Function," from <u>Heart Physiology and Pathophysiology</u> , Fourth Edition, 2001, pp. 45-59
	DZ	FARRELL, et al., "Angiotensin II Modulates Catecholamine Release Into Interstitial Fluid Of Canine Myocardium In Vivo," from <u>Am J. Physiol. Heart Cir. Physiol.</u> , 2001, pp. H813-H822
	EA	KINGMA, JR., et al., "Neuromodulation Therapy Does Not Influence Blood Flow Distribution Or Left-Ventricular Dynamics During Acute Myocardial Ischemia," from <u>Autonomic Neuroscience: Basic & Clinical</u> , 2001, pp. 47-54
	EB	TANAKA, et al., "Low Intensity Spinal Cord Stimulation May Induce Cutaneous Vasodilation Via CGRP Release," from <u>Brain Research</u> , 2001, pp. 183-187
	EC	QIN, et al., "Responses And Afferent Pathways Of Superficial And Deeper C ₁ -C ₂ Spinal Cells To Intrapericardial Algogenic Chemicals In Rats," from <u>The American Physiological Society</u> , December 2000, pp. 1522-1532
	ED	ARMOUR, et al., "Long-Term Modulation Of The Intrinsic Cardiac Nervous System By Spinal Cord Neurons In Normal And Ischaemic Hearts," from <u>Autonomic Neuroscience: Basic & Clinical</u> , 2002, pp. 71-79
	EE	CHANDLER, et al., "Spinal Inhibitory Effects Of Cardiopulmonary Afferent Inputs In Monkeys: Neuronal Processing In High Cervical Segments," from <u>J. Neurophysiol.</u> , 2002, pp. 1290-1302
	EF	CARDINAL, et al., "Spinal Cord Activation Differentially Modulates Ischaemic Electrical Responses To Different Stressors In Canine Ventricles," from <u>Autonomic Neuroscience: Basic & Clinical</u> , 2004, pp. 37-47
	EG	ARDELL, "Intrathoracic Neuronal Regulation Of Cardiac Function," from <u>Basic and Clinical Neurocardiology</u> , 2004, pp. 118-152
	EH	KONSTANTINOV, et al., "electrical stimulation of the spinal cord in cardiovascular disease," from <u>Vestn Ross Akad Med Nauk</u> , 2002, pp. 17-23
	EI	DI PEDE, et al., "Long-Term Effects Of Spinal Cord Stimulation On Myocardial Ischemia And Heart Rate Variability: Results Of A 48-Hour Ambulatory Electrocardiographic Monitoring," from <u> Ital. Heart J.</u> , September 2001, pp. 690-695

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/035,319
Sheet	5	of	5
		Attorney Docket Number	P10124.00

	DJ	NORRSELL, et al., "Effects Of Spinal Cord Stimulation And Coronary Artery Bypass Grafting On Myocardial Ischemia And Heart Rate Variability: Further Results From The ESBY Study," from <u>Cardiology</u> , 2000	
	DK	JESSURUN, et al., "Clinical Follow-Up After Cessation Of Chronic Electrical Neuromodulation In Patients With Severe Coronary Artery Disease: A Prospective Randomized Controlled Study On Putative Involvement Of Sympathetic Activity," from <u>Pacing Clin. Electrophysiol.</u> , 2001, pp. 1432-1439	
	DL	HAUTVAST, et al., "Effect Of Spinal Cord Stimulation On Heart Rate Variability And Myocardial Ischemia In Patients With Chronic Intractable Angina Pectoris—A Prospective Ambulatory Electrocardiographic Study," from <u>Clin. Cardiol.</u> , January 1998, pp. 33-38	
	DM	LINDEROTH, et al., "Preemptive Spinal Cord Stimulation Reduces Ischemia In An Animal Model Of Vasospasm," from <u>Neurosurgery</u> , August 1995, pp. 271-272	
	DN	ELIASSON, et al., "Safety Aspects Of Spinal Cord Stimulation In Severe Angina Pectoris," from <u>Coron. Artery Dis.</u> , October 1994, pp. 845-850	
	DO	PIVOVAROV, et al., "Effect Of Electrostimulation Of The Dorsolateral Funiculus Of The Spinal Cord On Changes In The Cardiac Rhythm In Acute Myocardial Ischemia," from <u>Biull Edsp. Biol. Med.</u> [Russian] December 1985, pp. 655-657	
	DP	KRYZHANOVSKII, et al., "Characteristics Of The Rhythmic Activity Of A Normal And A Damaged Heart During Hyperactivity Of Spinal Cord Preganglionic Neurons," from <u>Biull Edsp. Biol. Med.</u> [Russian] September 1983, pp. 14-16	
	DQ	RECORDATI, et al., "Renorenal Reflexes In The Rat Elicited Upon Stimulation Of Renal Chemreceptors," from <u>J.Auton. Nerv. Syst.</u> , September 1982, pp. 127-142	

Examiner Signature		Date Considered	
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